

WHAT IS CLAIMED IS:

1. A wireless communication system comprising:
  - a transmission path arranged in an indoor space to function as an antenna;
  - 5 a wireless terminal unit arranged in the indoor space; and
  - a wireless base station unit making wireless communication with the wireless terminal unit through the transmission path,
- 10 wherein the wireless communication between the wireless terminal unit and the wireless base station unit is made in orthogonal frequency division multiplex modulation.
2. The wireless communication system according to claim 1, wherein the transmission path is composed of a leaky transmission path.
- 15 3. The wireless communication system according to claim 2, wherein the leaky transmission path is arranged to meander or arranged zigzag or spirally as a single transmission path in the indoor space, one end of the leaky transmission path is connected to the wireless base station unit, and the other end thereof is connected to a terminal load.
- 20 4. The wireless communication system according to claim 1, wherein the transmission path is composed of an antenna array cable.
- 25 5. The wireless communication system according

to claim 4, wherein the antenna array cable comprises a single high frequency transmission path, a plurality of high frequency couplers and antennas provided in a middle of the high frequency transmission path, the 5 antenna array cable is arranged to meander or arranged zigzag or spirally in the indoor space, and one end of the antenna array cable is connected to the wireless base station unit.

6. The wireless communication system according to 10 claim 1, wherein the transmission path is composed of a plurality of transmission paths arranged in parallel to be spaced from each other with a predetermined interval in the indoor space, one end of each of the plurality of transmission paths is connected to a power 15 distributor-synthesizer, and the power distributor-synthesizer is connected to the wireless base station unit.

7. The wireless communication system according to 20 claim 1, wherein the transmission path is arranged such that when a plurality of incoming waves are received by the wireless terminal unit, a time difference of the plurality of incoming waves occupying a main power, of the plurality of incoming waves, is in a guard section 25 of the orthogonal frequency division multiplex modulation scheme.

8. The wireless communication system according to claim 1, wherein the transmission path is arranged to

cross front and rear parts of a plurality of showcases arranged in a room.